AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-5. (Canceled)

6. (Previously Presented) A neurological disease therapeutic agent comprising a therapeutically effective amount of a mesenchymal stem cell as an active ingredient,

wherein the mesenchymal stem cell has been treated ex vivo with a transfection vector comprising a BDNF gene, PLGF gene, GDNF gene, or IL-2 gene, and

wherein the mesenchymal stem cell is an immortalized mesenchymal stem cell that has been treated *ex vivo* with a transfection vector comprising an hTERT gene and a therapeutically acceptable carrier therefor.

- 7. (Canceled)
- 8. (Previously Presented) The agent of claim 6, wherein the mesenchymal stem cell is a bone marrow stem cell, a cord blood stem cell, or a peripheral blood stem cell.
- 9. (Previously Presented) A method for treating a neurological disease comprising administering to a patient in need thereof of a therapeutically effective amount of a neurological disease therapeutic agent comprising a mesenchymal stem cell as an active ingredient,

wherein the mesenchymal stem cell has been treated ex vivo with a transfection vector comprising a BDNF gene, PLGF gene, GDNF gene or IL-2 gene, and

wherein the mesenchymal stem cell is an immortalized mesenchymal stem cell which has been treated *ex vivo* with a transfection vector comprising an hTERT gene.

- 10. (Canceled)
- 11. (Previously Presented) The method of claim 9, wherein the neurological disease is cerebral infarction or severe cerebral infarction.
- 12. (Previously Presented) The method of claim 9, wherein the administration is intravenous administration.

- 13. (Previously Presented) The method of claim 9, wherein the mesenchymal stem cell is a bone marrow stem cell, a cord blood stem cell, or a peripheral blood stem cell.
- 14. (Previously Presented) The method of claim 13, wherein the bone marrow stem cell is an autologous cell of the patient.
- 15. (Previously Presented) The method of claim 11, wherein the severe cerebral infarction is in a hyper acute stage or an acute stage.
 - 16. (Canceled)
- 17. (Previously Presented) The method of claim 11, wherein the neurological disease therapeutic agent is administered to a patient at any one of the times selected from:
- a) after 72 hours from the onset of a cerebral infarction or a severe cerebral infarction;
- b) after 24 hours from the onset of a cerebral infarction or a severe cerebral infarction;
- c) after 12 hours from the onset of a cerebral infarction or a severe cerebral infarction;
- d) after 6 hours from the onset of a cerebral infarction or a severe cerebral infarction; or
- e) after 3 hours from the onset of a cerebral infarction or a severe cerebral infarction.
- 18. (Previously Presented) A method for neuroprotection of a neurological disease patient comprising administering to the patient in need thereof of a therapeutically effective amount of an agent comprising a mesenchymal stem cell as an active ingredient,

wherein the mesenchymal stem cell has been treated ex vivo with a transfection vector comprising a BDNF gene, PLGF gene, GDNF gene or IL-2 gene, and

wherein the mesenchymal stem cell is an immortalized mesenchymal stem cell which has been treated *ex vivo* with a transfection vector comprising an hTERT gene.

19. (Previously Presented) A method for regenerating the cranial nerve of a neurological disease patient comprising administering to the patient in need thereof of a therapeutically effective amount of an agent comprising a mesenchymal stem cell as an active

ingredient,

wherein the mesenchymal stem cell has been treated ex vivo with a transfection vector comprising a BDNF gene, PLGF gene, GDNF gene or IL-2 gene, and

wherein the mesenchymal stem cell is an immortalized mesenchymal stem cell which has been treated *ex vivo* with a transfection vector comprising an hTERT gene.

- 20. (Withdrawn-Currently Amended) A method for treating brain tumor comprising *in vivo* administration to a patient of a therapeutically effective amount of neurological disease therapeutic agent according to claim 1 an agent comprising a mesenchymal cell—as an active ingredient.
- 21. (Withdrawn) The method of claim 20, wherein the *in vivo* administration is direct administration.
- 22. (Withdrawn) The method of claim 9, wherein the mesenchymal cell is obtained by the steps of:
 - (a) obtaining bone marrow cells from the patient;
 - (b) diluting the bone marrow cells;
- (c) centrifuging the bone marrow cells, thereby separating a mononuclear cell fraction;
 - (d) collecting said mononuclear cell fraction;
- (e) suspending said mononuclear cell fraction in a serum-free medium to form a suspension;
- (f) centrifuging said suspension to yield a centrifuged mononuclear cell fraction; and
- (g) suspending the mononuclear cell fraction obtained in (f) in a serum-free medium.
- 23. (Previously Presented) A method for delivering therapeutic genes to a neurological disease site of a patient with neurological disease, comprising administering a therapeutically effective amount of a mesenchymal stem cell to a patient in need thereof, wherein the mesenchymal stem cell is an immortalized mesenchymal stem cell which has been treated *ex vivo* with a transfection vector comprising an hTERT gene.

- 24. (Previously Presented) The method of claim 23, wherein the neurological disease is cerebral infarction.
- 25. (Withdrawn) The method of claim 23, wherein the neurological disease is a brain tumor.
- 26. (Previously Presented) The method of claim 24, wherein the administration is intravenous administration.
- 27. (Previously Presented) The method of claim 25, wherein the administration is direct administration.
- 28. (Withdrawn) The method of claim 13, wherein the bone marrow cell, cord blood cell, or peripheral blood cell is a cell fraction which is isolated from bone marrow cells, cord blood cells, or peripheral blood and containing mesoblastic stem cells comprising the markers SH2(+), SH3(+), SH4(+), CD29(+), CD44(+), CD14(-), CD34(-), and CD45(-).
- 29. (Withdrawn) The method of claim 9, wherein the neurological disease is a brain tumor.
- 30. (Withdrawn) The method of claim 29, wherein the administration is direct administration.